

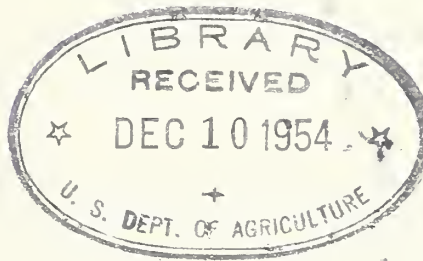
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X PRINCIPAL MACHINES ON FARMS X



UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Production Economics Research Branch

and

Agricultural Marketing Service
Agricultural Estimates Division

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PRINCIPAL MACHINES ON FARMS

Production Economics Research Branch
Agricultural Research Service
and
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Agricultural Marketing Service
United States Department of Agriculture

This report contains estimates of the number and distribution by States of tractors, combines, cornpickers, milking machines, motortrucks and automobiles on farms in the United States for January 1, 1953, with comparisons for earlier years.

Estimates for January 1, 1953, are based on returns from a special schedule sent to crop correspondents of the Agricultural Marketing Service in February 1953; domestic shipments of farm machines reported by the Bureau of the Census; and miscellaneous other data, indicating changes in machine numbers since the 1950 Census of Agriculture.

Returns from crop correspondents, which numbered about 23,000, were summarized in the Production Economics Research Branch of the Agricultural Research Service. Numbers of machines reported by the crop correspondents were expanded to State totals by size of farm classes. State indications for tractors and other farm machines were then adjusted to national estimates, which were based largely on the record of domestic shipments since 1950 with allowances for junked machines, and changes in dealers' stocks. As judgment entered into the derivation of the State estimates, they should be considered only as approximations of the numbers of specified items on farms.

Table 1.- Tractors on farms, by type, and by States, specified years

State and group	Wheel and homemade			Crawler			Garden		
	1945	1950	1953	1945	1950	1953	1945	1950	1953
	January 1	April 1	January 1	January 1	April 1	January 1	January 1	April 1	January 1
	Census	Census 1/	estimated	Census	Census	estimated	Census	Census 1/	estimated
	Number	Number	Number	Number	Number	Number	Number	Number	Number
Maine	12,617	14,150	15,300	452	704	875	1,725	1,811	2,000
New Hampshire	4,702	5,398	6,200	197	298	375	1,195	1,250	1,400
Vermont	6,423	9,282	11,000	381	558	675	523	822	1,000
Massachusetts	9,750	10,779	11,500	874	697	765	3,402	3,221	3,800
Rhode Island	1,733	1,456	1,800	43	49	60	186	439	550
Connecticut	7,963	9,049	10,000	499	700	750	1,278	2,205	2,800
New York	83,302	103,443	116,000	3,860	5,111	6,400	6,130	10,748	13,500
New Jersey	16,267	20,523	23,400	1,060	1,231	1,375	2,482	4,285	5,400
Pennsylvania	82,377	107,609	123,000	4,336	4,778	5,300	5,925	13,464	17,600
Delaware	4,336	5,455	6,300	40	131	150	228	539	750
Maryland	17,463	26,106	31,500	734	815	900	592	2,984	4,400
Northeast	246,933	313,250	356,000	12,476	15,072	17,625	23,666	41,768	53,200
Ohio	121,886	158,638	177,000	1,720	2,873	3,500	6,880	20,970	28,500
Indiana	102,113	135,558	153,000	719	2,116	3,000	2,431	16,306	26,000
Illinois	169,728	216,595	245,000	2,131	2,670	3,000	2,411	15,524	25,000
Iowa	178,880	230,622	262,000	958	1,682	2,500	1,211	8,637	20,000
Missouri	74,275	117,385	143,000	800	1,910	2,500	1,035	6,211	14,000
Corn Belt	646,882	858,798	980,000	6,328	11,251	14,500	13,968	67,678	113,500
Michigan	101,615	133,659	152,000	3,020	3,036	3,300	5,485	12,682	18,000
Wisconsin	119,883	162,706	188,000	1,249	2,416	3,200	2,148	6,311	11,000
Minnesota	149,495	196,305	221,000	1,584	3,615	4,700	1,476	4,280	7,000
Lake States	370,993	492,670	561,000	5,853	9,067	11,200	9,109	23,273	36,000
North Dakota	72,989	95,349	108,000	853	1,909	2,600	142	1,418	3,500
South Dakota	62,185	85,986	100,000	498	945	1,250	89	1,343	4,000
Nebraska	95,003	123,461	142,000	742	1,622	2,100	458	2,071	5,000
Kansas	113,464	138,515	154,000	2,571	2,939	3,200	616	4,812	8,000
Great Plains	343,641	443,311	504,000	4,664	7,445	9,150	1,305	9,644	20,500
West Virginia	5,675	10,590	15,000	421	614	750	767	2,730	6,000
Kentucky	23,084	55,173	76,000	565	975	1,150	760	2,670	5,000
Tennessee	22,956	55,466	76,000	580	1,384	1,800	516	2,948	6,000
Virginia	20,858	40,231	59,000	994	1,636	1,900	1,566	6,266	10,000
North Carolina	29,465	68,723	104,000	1,174	2,189	2,800	550	2,585	4,000
Appalachian	102,038	230,183	330,000	3,734	6,798	8,400	4,159	17,199	31,000
South Carolina	11,401	28,004	43,000	682	1,120	1,450	364	1,158	2,000
Georgia	22,954	56,718	81,000	1,020	1,752	2,300	674	1,799	2,500
Florida	9,826	18,674	24,000	1,667	1,435	1,800	1,319	1,909	2,500
Alabama	15,932	42,748	65,000	859	1,319	1,650	269	1,684	2,500
Southeast	60,113	146,144	213,000	4,228	5,626	7,200	2,626	6,550	9,500
Mississippi	19,501	48,897	72,000	1,005	1,597	1,950	571	1,204	2,000
Louisiana	16,539	33,443	48,000	695	930	1,200	396	1,362	2,000
Arkansas	25,651	56,913	82,000	582	1,036	1,300	304	2,359	3,500
Delta	61,691	139,253	202,000	2,282	3,563	4,450	1,271	4,925	7,500
Oklahoma	68,627	88,497	100,000	917	1,289	1,500	851	3,919	5,500
Texas	157,707	222,471	260,000	3,502	4,030	4,500	1,172	5,827	9,000
Okla.-Texas	226,334	310,968	360,000	4,419	5,319	6,000	2,023	9,746	14,500
Montana	29,371	39,319	46,000	2,113	3,704	4,700	241	1,867	3,500
Idaho	15,778	31,042	39,000	4,276	6,707	7,950	245	1,649	3,000
Wyoming	9,199	14,210	17,500	551	1,111	1,400	105	289	500
Colorado	29,853	47,863	57,000	2,472	3,462	4,100	441	1,792	2,500
New Mexico	10,312	14,671	18,000	309	469	500	114	640	1,000
Arizona	5,338	7,906	10,000	870	1,492	1,850	164	348	500
Utah	5,674	13,704	19,000	833	1,253	1,450	369	1,030	1,400
Nevada	1,557	2,656	3,500	248	431	525	22	126	200
Mountain	107,082	171,371	210,000	11,672	18,629	22,475	1,701	7,741	12,600
Washington	20,278	34,624	43,000	9,024	12,028	14,000	2,748	8,409	12,200
Oregon	21,084	34,828	43,000	5,542	9,403	11,500	2,020	8,195	11,500
California	47,826	74,466	91,000	28,287	39,723	44,500	3,726	10,393	14,000
Pacific	89,188	143,918	177,000	42,853	61,154	70,000	8,494	26,997	37,700
United States	2,254,895	3,249,866	3,893,000	98,509	143,894	171,000	68,322	215,521	336,000

1/ From 1945 to 1950, census reports show that numbers of farms in the United States declined by about 9 percent partly because of changed definition of a farm. There were considerable numbers of tractors, especially of the garden and homemade types on units not classified as farms in 1950. The rate of increase in numbers of these tractors from 1945 to 1950 was below average in States where the percentage reduction in farm numbers was above average.

Table 2.- Motortrucks on farms, by States, specified years

State and group	1920 January 1 Census Thousands	1930 April 1 Census Thousands	1940 April 1 Census Thousands	1945 January 1 Census Thousands	1950 April 1 Census 1/ Thousands	1953 January 1 estimated Thousands
Maine	1.1	10.8	13.1	17.8	19.2	20.7
New Hampshire	.7	4.5	6.5	9.2	8.8	9.8
Vermont	.6	5.0	6.2	9.6	10.6	11.5
Massachusetts	3.5	9.6	12.4	18.8	15.4	16.6
Rhode Island	.5	1.7	2.0	3.1	2.5	2.5
Connecticut	1.6	6.3	11.0	15.7	13.2	14.4
New York	9.3	59.0	55.3	69.1	72.4	78.5
New Jersey	3.4	14.7	17.1	23.2	23.9	26.0
Pennsylvania	9.4	47.1	44.3	56.3	66.1	71.5
Delaware	.3	3.0	2.6	3.8	4.1	4.5
Maryland	2.8	11.3	13.0	19.2	21.4	23.5
Northeast	33.2	173.0	183.5	245.8	257.6	279.5
Ohio	7.3	39.2	35.2	42.8	64.8	72.0
Indiana	3.7	30.0	29.7	38.4	59.8	65.0
Illinois	6.2	40.4	42.5	56.6	86.8	97.0
Iowa	8.9	32.7	26.3	37.4	62.4	80.0
Missouri	5.1	20.1	31.8	47.2	77.2	92.0
Corn Belt	31.2	162.4	165.5	222.4	351.0	406.0
Michigan	4.9	36.8	33.1	41.3	57.0	70.0
Wisconsin	4.0	51.8	50.9	61.0	74.5	90.0
Minnesota	3.8	36.6	38.6	47.4	70.4	81.0
Lake States	12.7	125.2	122.6	149.7	201.9	241.0
North Dakota	.8	17.0	21.5	36.7	55.7	65.0
South Dakota	4.4	14.8	14.3	22.2	37.7	44.0
Nebraska	6.6	26.0	24.1	33.8	54.2	63.0
Kansas	3.9	33.7	42.6	60.9	88.8	100.0
Great Plains	15.7	91.5	102.5	153.6	236.4	272.0
West Virginia	.9	7.4	12.4	16.3	24.6	30.0
Kentucky	1.5	7.2	19.1	27.2	55.0	65.0
Tennessee	1.4	9.0	18.9	26.3	60.3	70.0
Virginia	2.5	19.5	23.3	32.0	49.1	59.0
North Carolina	2.7	18.6	20.6	32.9	60.4	79.0
Appalachian	9.0	61.7	94.3	134.7	249.4	303.0
South Carolina	1.7	7.0	8.2	15.3	29.7	37.0
Georgia	3.1	16.0	21.7	34.7	62.9	75.0
Florida	1.6	12.2	14.4	21.6	29.4	33.0
Alabama	1.2	12.8	15.3	23.9	52.7	64.0
Southeast	7.6	48.0	59.6	95.5	174.7	209.0
Mississippi	1.0	16.5	18.6	28.3	56.2	69.0
Louisiana	.9	9.3	17.0	21.0	36.8	45.0
Arkansas	1.0	11.0	19.7	33.1	63.4	75.0
Delta	2.9	36.8	55.3	82.4	156.4	189.0
Oklahoma	2.2	23.9	28.4	44.4	68.9	80.0
Texas	5.4	52.6	56.7	89.3	146.5	162.0
Okla.-Texas	7.6	76.5	85.1	133.7	215.4	242.0
Montana	1.2	14.6	21.0	29.4	38.7	42.0
Idaho	.8	6.3	12.0	19.1	29.7	33.0
Wyoming	.6	4.1	6.3	8.9	12.6	15.0
Colorado	3.0	16.9	16.9	28.8	42.7	48.0
New Mexico	.6	5.3	7.1	11.9	15.1	18.0
Arizona	.6	3.1	4.3	6.9	8.6	10.0
Utah	.6	4.2	6.3	11.0	15.3	19.0
Nevada	.2	1.2	1.7	2.6	3.1	3.5
Mountain	7.6	55.7	75.6	118.6	165.8	188.5
Washington	3.4	18.8	28.2	40.0	48.1	55.0
Oregon	1.8	9.7	16.8	28.1	39.4	45.0
California	6.4	41.0	58.0	85.7	110.6	120.0
Pacific	11.6	69.5	103.0	153.8	198.1	220.0
United States	139.1	900.3	1,047.0	1,490.2	2,206.7	2,550.0

1/ From 1945 to 1950, census reports show that numbers of farms in the United States declined by about 9 percent partly because of the changed definition of a farm. Motortruck numbers in 1950 showed below-average increases and even decreases from 1945 numbers in States where percentage reductions in farm numbers were most pronounced.

Table 3.- Automobiles on farms, by States, specified years

State and group	1920 January 1 Census Thousands	1930 April 1 Census Thousands	1940 April 1 Census Thousands	1945 January 1 Census Thousands	1950 April 1 Census 1/ Thousands	1953 January 1 estimated Thousands
Maine	12.6	26.2	25.5	30.1	23.9	24.5
New Hampshire	5.3	11.1	12.9	15.0	12.1	12.4
Vermont	8.2	18.6	18.0	19.7	16.6	17.0
Massachusetts	9.3	17.6	23.7	32.9	21.4	21.9
Rhode Island	1.4	2.6	2.9	4.0	2.8	3.0
Connecticut	8.0	13.1	18.8	25.2	18.4	18.9
New York	74.8	141.9	139.7	144.9	129.9	134.5
New Jersey	13.7	22.4	24.2	27.9	27.8	29.5
Pennsylvania	76.5	152.2	158.0	165.2	151.5	157.5
Delaware	4.0	8.7	8.2	9.5	7.1	7.3
Maryland	7.7	38.0	38.8	41.5	36.5	37.3
Northeast	221.5	452.4	470.7	515.9	448.0	463.8
Ohio	128.4	201.6	231.4	221.6	208.0	214.0
Indiana	102.1	154.6	173.0	165.8	159.2	161.0
Illinois	139.1	192.9	210.5	200.9	195.9	201.0
Iowa	177.6	240.5	236.6	224.2	228.1	238.0
Missouri	86.2	176.5	176.3	165.2	162.5	169.0
Corn Belt	633.4	966.1	1,027.8	977.7	953.7	983.0
Michigan	82.4	150.9	181.2	172.7	164.8	172.0
Wisconsin	98.8	176.8	188.3	181.1	182.6	190.0
Minnesota	107.8	185.7	208.7	191.7	195.7	201.0
Lake States	289.0	513.4	578.2	545.5	543.1	563.0
North Dakota	47.7	78.8	71.9	69.2	73.6	78.0
South Dakota	58.2	81.9	72.7	68.7	77.3	81.0
Nebraska	104.5	141.1	126.3	118.6	120.9	128.0
Kansas	111.1	171.0	150.4	133.6	133.6	140.0
Great Plains	321.5	472.8	421.3	390.1	405.4	427.0
West Virginia	11.1	37.0	38.0	40.5	37.3	39.0
Kentucky	30.1	86.8	98.7	103.0	119.9	125.0
Tennessee	23.5	89.0	85.2	91.4	113.1	119.0
Virginia	41.0	88.5	86.8	94.4	94.0	98.0
North Carolina	44.2	132.9	127.5	152.1	159.2	175.0
Appalachian	149.9	434.2	436.2	481.4	523.5	556.0
South Carolina	32.8	61.8	63.6	77.6	81.4	89.0
Georgia	49.8	88.5	77.0	90.1	100.5	106.0
Florida	9.4	26.4	27.4	31.7	36.0	38.0
Alabama	16.6	73.6	48.5	58.4	71.2	73.0
Southeast	106.6	250.3	216.5	257.8	289.1	306.0
Mississippi	15.9	85.6	55.7	56.9	76.2	82.0
Louisiana	10.5	43.1	34.9	40.7	56.2	64.0
Arkansas	16.4	65.9	48.6	53.9	65.1	72.0
Delta	42.8	194.6	139.2	151.5	197.5	213.0
Oklahoma	52.1	127.4	112.4	100.6	94.8	100.0
Texas	105.3	300.2	277.7	259.6	254.5	267.0
Okla.-Texas	157.4	427.6	390.1	360.2	349.3	367.0
Montana	22.1	38.2	35.7	31.6	34.9	37.0
Idaho	17.6	34.0	38.2	35.8	40.0	42.0
Wyoming	6.7	12.8	13.9	11.4	12.8	13.5
Colorado	30.8	52.3	50.4	44.5	48.8	53.0
New Mexico	6.0	15.4	15.7	15.4	14.9	16.0
Arizona	5.1	9.9	10.4	12.4	11.8	12.5
Utah	8.7	17.6	16.8	20.3	20.8	22.0
Nevada	1.7	2.9	3.2	3.0	3.1	3.2
Mountain	98.7	183.1	184.3	174.4	187.1	199.2
Washington	29.8	56.0	70.5	74.2	69.4	73.0
Oregon	22.2	47.4	58.8	59.4	61.8	65.0
California	71.5	136.8	150.5	160.2	171.3	179.0
Pacific	123.5	240.2	279.8	293.8	302.5	317.0
United States	2,146.3	4,134.7	4,144.1	4,148.3	4,199.2	4,400.0

1/ From 1945 to 1950, census reports show that numbers of farms in the United States declined by about 9 percent partly because of the changed definition of a farm. In States where the percentage reduction in farm numbers was above average there were fewer automobiles on farms in 1950 than in 1945.

Table 4.- Grain combines and cornpickers on farms, by States, specified years

State and group	Combines				Cornpickers		
	1930 1/	1945	1950	1953	1942	1950	1953
		January 1 Census	April 1 Census	January 1 estimated	January 1 estimated 2/	January 1 Census	January 1 estimated
	Number	Number	Number	Number	Number	Number	Number
New England	3	1,671	1,216	1,500	---	162	400
New York	40	5,853	10,830	14,000	100	1,827	3,500
New Jersey	6	875	2,009	2,500	200	1,022	1,900
Pennsylvania	50	7,436	14,538	20,000	600	8,158	14,000
Delaware	10	472	1,442	1,500	20	649	1,200
Maryland	45	1,465	4,031	5,300	85	2,569	4,500
Northeast		17,772	33,766	43,300	1,005	14,387	25,500
Ohio	170	19,545	40,315	50,000	9,200	34,691	47,000
Indiana	425	17,720	37,865	49,000	11,900	45,289	59,000
Illinois	700	38,470	71,978	90,000	32,100	75,532	95,000
Iowa	350	23,678	52,275	77,000	37,000	92,516	112,000
Missouri	140	11,127	27,726	39,000	1,800	17,286	30,000
Corn Belt		110,540	230,159	305,000	92,000	265,314	343,000
Michigan	55	12,920	27,234	35,000	1,800	10,681	15,500
Wisconsin	5	8,872	14,946	25,000	2,700	10,159	16,000
Minnesota	150	16,021	31,262	45,000	18,000	45,792	58,000
Lake States		37,813	73,442	105,000	22,500	66,632	89,500
North Dakota	3,300	23,261	38,194	46,000	1,100	5,477	7,500
South Dakota	1,400	10,831	21,812	30,000	6,800	26,160	36,000
Nebraska	3,300	20,591	37,036	48,000	4,100	41,989	55,000
Kansas	24,000	48,067	68,884	76,000	1,000	12,193	17,000
Great Plains		102,750	165,926	200,000	13,000	85,819	115,500
West Virginia	1	331	626	1,000	10	394	800
Kentucky	15	2,422	7,046	10,000	200	4,980	7,800
Tennessee	8	2,969	10,158	14,000	360	1,824	3,200
Virginia	35	3,044	6,388	9,000	40	2,440	4,500
North Carolina	25	4,934	13,252	18,000	30	1,937	3,200
Appalachian		13,700	37,470	52,000	640	11,575	19,500
South Carolina	30	2,022	6,765	9,400	5	390	800
Georgia	24	3,629	8,389	11,000	40	687	2,000
Florida	0	242	512	600	---	98	400
Alabama	6	2,148	4,532	7,000	40	696	1,500
Southeast		8,041	20,198	28,000	85	1,871	4,700
Mississippi	175	2,953	5,974	7,500	20	748	1,500
Louisiana	5	1,675	3,507	4,500	---	294	500
Arkansas	5	3,410	7,937	11,000	20	864	1,600
Delta		8,038	17,418	23,000	40	1,906	3,600
Oklahoma	7,000	15,976	24,988	28,000	100	1,606	3,000
Texas	5,600	15,656	35,080	41,000	200	2,957	6,000
Okla.-Texas		31,632	60,068	69,000	300	4,563	9,000
Montana	5,900	10,708	15,494	18,800	145	261	350
Idaho	1,160	5,179	10,425	13,400	10	129	200
Wyoming	200	2,089	3,208	4,000	25	76	150
Colorado	1,600	7,188	12,805	15,800	180	2,324	2,800
New Mexico	430	1,721	2,966	3,600	---	130	175
Arizona	70	352	829	1,000	---	10	15
Utah	300	937	2,827	3,900	---	31	75
Nevada	15	154	385	500	---	9	10
Mountain		28,328	48,939	61,000	360	2,970	3,875
Washington	950	5,881	7,792	9,500	---	87	125
Oregon	1,500	5,761	9,616	11,200	25	172	300
California	1,600	4,529	8,839	11,000	75	223	400
Pacific		16,171	26,247	31,700	100	482	825
United States	60,803	374,785	713,633	918,000	130,030	455,519	615,000

1/ U. S. Dept. Agr. Misc. Pub. 157, Power and Machinery in Agriculture, April 1933.

2/ Based largely on material supplied by crop reporters in February, 1942.

U. S. Department of Agriculture, Agricultural Research and Agricultural Marketing Services.

Table 5.- Number of farms with milking machines, by States, specified years

State and group	Farms with milking machines				
	1942	1945	1950	1952	1953
	January 1	January 1	April 1	January 1	January 1
	estimated 1/	Census	Census	estimated 1/	estimated
	Number	Number	Number	Number	Number
New England	15,400	19,086	25,575	26,200	26,500
New York	35,000	40,792	50,831	52,000	52,500
New Jersey	3,000	3,570	3,798	3,900	4,000
Pennsylvania	14,000	20,025	35,409	37,000	37,000
Delaware	900	653	1,053	1,100	1,200
Maryland	2,100	3,156	5,559	5,800	6,500
Northeast	70,400	87,282	122,225	126,000	127,700
Ohio	13,000	20,059	39,436	41,800	43,000
Indiana	8,000	13,826	28,105	29,400	31,000
Illinois	12,000	19,479	31,970	33,600	35,000
Iowa	14,000	21,236	42,305	44,800	48,000
Missouri	2,000	4,092	14,186	15,400	17,000
Corn Belt	49,000	78,692	156,002	165,000	174,000
Michigan	20,000	27,060	42,269	44,500	46,000
Wisconsin	50,000	66,057	94,201	99,000	100,000
Minnesota	24,000	37,913	65,049	70,500	73,000
Lake States	94,000	131,030	201,519	214,000	219,000
North Dakota	1,800	3,232	7,613	8,200	10,000
South Dakota	1,200	1,484	5,734	6,200	7,500
Nebraska	1,200	2,612	9,482	10,200	11,500
Kansas	3,000	5,338	13,268	14,400	15,500
Great Plains	7,200	12,666	36,097	39,000	44,500
West Virginia	500	684	2,303	2,900	3,000
Kentucky	700	1,324	7,113	9,200	9,300
Tennessee	1,100	1,795	6,255	7,700	8,000
Virginia	700	1,248	4,132	5,300	5,500
North Carolina	200	604	3,575	4,900	4,900
Appalachian	3,200	5,655	23,408	30,000	30,700
South Carolina	100	484	1,355	1,800	1,800
Georgia	200	920	3,042	4,000	4,500
Florida	300	325	983	1,300	1,400
Alabama	200	600	2,218	2,900	3,500
Southeast	800	2,329	7,598	10,000	11,200
Mississippi	300	630	3,454	4,100	5,000
Louisiana	200	686	2,586	3,200	3,300
Arkansas	200	451	2,884	3,700	4,500
Delta	700	1,767	8,924	11,000	12,800
Oklahoma	1,000	2,517	7,607	9,000	10,500
Texas	2,000	3,521	10,081	12,000	13,000
Okla.-Texas	3,000	6,038	17,688	21,000	23,500
Montana	1,100	1,569	3,159	3,800	3,900
Idaho	2,800	6,803	11,767	13,400	13,500
Wyoming	200	598	1,082	1,200	2,300
Colorado	1,200	1,991	4,500	5,400	5,700
New Mexico	200	428	940	1,100	1,200
Arizona	300	794	910	1,000	1,000
Utah	900	1,809	3,864	4,600	5,000
Nevada	200	318	450	500	500
Mountain	6,900	14,310	26,672	31,000	32,100
Washington	5,500	7,931	11,608	12,500	12,750
Oregon	4,000	6,214	9,159	10,000	10,250
California	10,000	11,151	15,441	16,500	16,500
Pacific	19,500	25,296	36,208	39,000	39,500
United States	254,700	365,065	636,341	686,000	715,000

1/ Based largely on material supplied by voluntary crop correspondents of the Department of Agriculture.

U. S. Department of Agriculture, Agricultural Research and Agricultural Marketing Services.